

IN THE CLAIMS

Please amend the claims as follows.

1. (Currently amended) A process comprising:

dispensing a polymer stress-relief layer upon a substrate lower surface under conditions to partially embed a ball grid array in excess of four electrical bumps ~~an electrical first bump~~ disposed upon the lower surface, wherein dispensing the polymer stress-relief layer includes ejecting a substantially continuous polymer mass upon the lower surface in one of a serpentine and spiral pattern; and

curing the polymer stress-relief layer.

2. (Currently amended) The process of claim 1, following curing the polymer stress-relief layer, further including reflowing the electrical first bump.

3. (Currently amended) The process of claim 1, wherein dispensing the [[a]] polymer stress-relief layer includes dispensing in a continuous action.

4-6. (Canceled).

7. (Withdrawn) The process of claim 1, wherein dispensing the polymer stress-relief layer includes ejecting a discrete series of quanta of polymer masses upon the lower surface that includes a ball grid array in excess of four electrical bumps including the electrical first bump.

8. (Withdrawn) The process of claim 1, wherein dispensing the polymer stress-relief layer includes ejecting a polymer first mass and a polymer second mass upon the lower surface that includes a ball grid array of at least six electrical bumps:

wherein the electrical first bump is in a rectangular pattern with an electrical second bump, an electrical third bump, and an electrical fourth bump, wherein the polymer first mass is

ejected contiguous with only the electrical first bump, the electrical second bump, the electrical third bump, and the electrical fourth bump; and

wherein the electrical first bump and the electrical second bump are in a rectangular pattern with an electrical fifth bump and an electrical sixth bump, wherein the polymer second mass is ejected contiguous with only the electrical first bump, the electrical second bump, the electrical fifth bump, and the electrical sixth bump.

9. (Previously presented) The process of claim 1, wherein the electrical first bump includes a first height, and wherein dispensing the polymer stress-relief layer includes dispensing against the electrical first bump, in a depth range from about 5 percent the first height to about 95 percent the first height.

Claims 10 - 26. (Canceled).

27. (Currently amended) A process comprising:

dispensing a polymer stress-relief layer upon a substrate lower surface under conditions to partially embed a ball grid array in excess of four electrical bumps on an electrical first bump disposed upon the lower surface, wherein dispensing the polymer stress-relief layer includes ejecting a substantially continuous polymer mass upon the lower surface in one of a serpentine and spiral pattern, wherein the polymer stress-relief layer includes a polymer selected from a resin, an epoxy, a cyanate ester, a polyimide, a polybenzoxazole, a polybenzimidazole, a polybenzothiazole, and combinations thereof; and

curing the polymer stress-relief layer.

28. (Withdrawn) The process of claim 27, wherein the substrate lower surface is a mounting substrate land side, wherein the polymer includes a polybenzoxazole prepolymer, the process further including:

ejecting the prepolymer onto the mounting substrate land side; and
heating the prepolymer to a temperature above the glass-transition temperature thereof .

29. (Withdrawn) The process of claim 27, wherein the substrate lower surface is a mounting substrate land side, wherein the polymer includes a cyanate ester prepolymer, the process further including:

ejecting the prepolymer onto the mounting substrate land side; and
heating the prepolymer to a temperature above the glass-transition temperature thereof .

30. (Withdrawn) The process of claim 27, wherein the substrate lower surface is a mounting substrate land side, wherein the polymer includes a polybenzimidazole prepolymer, the process further including:

ejecting the prepolymer onto the mounting substrate land side; and
heating the prepolymer to a temperature above the glass-transition temperature thereof .

31. (Currently amended) The process of claim 27, wherein the substrate lower surface is a mounting substrate land side, wherein the polymer stress-relief layer includes a polybenzothiazole prepolymer, the process further including:

ejecting the prepolymer onto the mounting substrate land side; and
heating the prepolymer to a temperature above the glass-transition temperature thereof .

32. (Currently amended) A process comprising:

dispensing a polymer stress-relief layer upon a substrate lower surface under conditions to partially embed a ball grid array in excess of four electrical bumps an electrical first bump disposed upon the lower surface, wherein dispensing the polymer stress-relief layer includes ejecting a substantially continuous polymer mass upon the lower surface;

mating the electrical first bump through a pre-applied solder flux spot on a board; and
curing the polymer stress-relief layer.

33. (Previously Presented) The process of claim 32, wherein the substrate lower surface is a mounting substrate land side; and wherein curing includes heating the prepolymer to a temperature above the glass-transition temperature thereof.

34. (Previously Presented) The process of claim 32, wherein curing also includes curing the pre-applied solder flux spot on the board.

35. (Previously Presented) A process comprising:
locating an electrical first bump upon a substrate lower surface, wherein the electrical first bump touches a peripheral ring polymer stress relief layer;

dispensing a polymer stress-relief layer upon the substrate lower surface under conditions to partially embed the electrical first bump disposed upon the lower surface; and
curing the polymer stress-relief layer.

36. (Previously Presented) The process of claim 35, wherein dispensing includes forming the polymer stress-relief layer in a spiral pattern.

37. (Previously Presented) The process of claim 35, wherein dispensing includes forming the polymer stress-relief layer in a serpentine pattern.